

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	NHS00-0003-00(62)	159	297

BRIDGE REPLACEMENT CONSISTS OF

2 - 45'-0" TYPE I MOD PSC BEAM SPANS
W/ TYPE III PSC FASCIA BEAMS ----- SPECIAL DESIGN

2 - 88'-0" TYPE III PSC BEAM SPANS ----- SPECIAL DESIGN

2 - STEEL H PILE END BENTS ----- SPECIAL DESIGN

3 - CONCRETE INTERMEDIATE BENTS ----- SPECIAL DESIGN

4 - END POST AND GUARDRAIL ATTACHMENT DETAIL ---- GA. STD. 3054 (9-30-02)
(L = 4'-3"; W = 1'-1"; H = 2'-8")
(L = 5'-0"; W = 1'-1"; H = 2'-8")

BAR BENDING DETAILS ----- GA. STD. 3901 (8-69)

TYPICAL FILL DETAIL AT END OF BRIDGE ----- GA. STD. 9037 (9-99)

TRAFFIC DATA

TRAFFIC ----- ADT = 5,350 (2012)
ADT = 8,850 (2032)

DESIGN SPEED ----- 55 MPH

TRUCKS ----- 5 %

24 HR TRUCKS ----- 7 %

DIRECTIONAL ----- 50 %

UTILITIES

NONE

DESIGN DATA

SPECIFICATIONS ----- AASHTO 1996 AND 1997, 1998 AND 1999 INTERIMS
(DESIGNED FOR SEISMIC PERFORMANCE CATEGORY A)

TYPICAL HS20-44 AND/OR MILITARY LOADING ----- IMPACT ALLOWED

FUTURE PAVING ALLOWANCE ----- 30 LBS PER SQ FT

CONCRETE: SUPERSTRUCTURE ----- CLASS AA, $f_c = 3,500$ PSI
PSC BEAMS ----- CLASS AAA, $f_c = 7,500$ PSI
PSC BEAM ALLOWABLE TENSION ----- 520 PSI
SUBSTRUCTURE ----- CLASS AA, $f_c = 3,500$ PSI

REINFORCEMENT STEEL ----- GRADE 60, $f_y = 60,000$ PSI

PRETENSIONING STRANDS ----- $f_p = 270,000$ PSI

GENERAL NOTES

SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 2001 EDITION, AND 2008 SUPPLEMENTAL SPECIFICATIONS AS MODIFIED BY CONTRACT DOCUMENTS.

REINFORCING STEEL - PLACE AND TIE ALL REINFORCING STEEL IN ACCORDANCE WITH THE GEORGIA DOT SPECIFICATIONS. DO NOT WELD REINFORCING STEEL.

CHAMFER - CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" UNLESS OTHERWISE NOTED.

PROTECTIVE PLATFORMS - PROVIDE PROTECTIVE PLATFORMS AT THIS SITE, SEE SECTION 510 OF THE GEORGIA DOT SPECIFICATIONS. MAINTAIN A MINIMUM VERTICAL CLEARANCE OF 16'-6" ABOVE I-20.

TRAFFIC CONTROLS - ROAD TO BE CLOSED DURING BRIDGE CONSTRUCTION. SEE ROADWAY PLANS FOR DETOUR, TRAFFIC CONTROLS AND TRAFFIC CONTROL PAYMENT.

WAITING PERIOD - NONE REQUIRED.

PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.

DRIVING DATA PILES - ONE DRIVING DATA PILE SHALL BE REQUIRED AT BENT 2

SMOOTH DOWEL BARS - PLACE SMOOTH DOWEL BARS IN FORMED 3" DIAMETER X 12" DEEP HOLES AND GROUT IN PLACE SIMILAR TO ANCHOR BOLTS, SEE SUB-SECTION 501.3.05.B.3 OF THE GEORGIA DOT SPECIFICATIONS. STIRRUPS MAY BE SHIFTED SLIGHTLY TO CLEAR FORMED HOLES.

GROOVED CONCRETE - GROOVE THE ENTIRE LENGTH OF THE BRIDGE TRANSVERSELY AS PER SUB-SECTION 500.3.05.T.9.C OF THE GEORGIA DOT SPECIFICATIONS.

RIDING QUALITY - THE FINISHED BRIDGE DECK AND APPROACH SLABS SHALL MEET THE RIDE QUALITY REQUIREMENTS AS SPECIFIED IN SUB-SECTION 500.3.06.E OF THE GEORGIA DOT SPECIFICATIONS FOR STATE ROUTES WITH FOUR LANES OR MORE.

PSC BEAMS - PRESTRESSED CONCRETE AASHTO TYPE I MODIFIED BEAMS SHALL BE PAID FOR AS "LF PSC BEAMS, AASHTO TYPE I".

WELDING - ALL WELDING ON GEORGIA DOT PROJECTS SHALL BE PERFORMED BY CERTIFIED WELDERS THAT HAVE IN THEIR POSSESSION A CURRENT WELDING CERTIFICATION CARD ISSUED BY THE OFFICE OF MATERIALS AND RESEARCH. USE ONLY E70XX (EXCLUDING E7014 AND E7024) LOW HYDROGEN ELECTRODES FOR MANUAL SHIELDED METAL ARC WELDING.

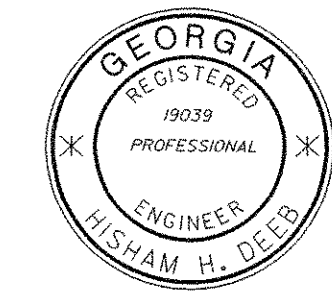
SALVAGE MATERIAL - NO MATERIAL REMOVED FROM THE EXISTING STRUCTURE SHALL BE SALVAGED FOR USE BY THE GEORGIA DOT.

INCIDENTAL ITEMS - INCLUDE THE COST INCIDENTAL TO THE WORK THAT IS NOT SPECIFICALLY COVERED BY THE GEORGIA STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISIONS IN THE OVERALL BID SUBMITTED. THIS INCLUDES THE COST OF CLEANING AND BENDING OF EXISTING REINFORCEMENT, WATERPROOFING, JOINT FILLERS, AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.


SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
211-0200	316	CY	BRIDGE EXCAVATION, GRADE SEPARATION
441-0004	825	SY	CONC SLOPE PAV, 4 IN
500-0100	1656	SY	GROOVED CONCRETE
500-1006	LUMP	LS	SUPERSTR CONCRETE, CL AA, BR NO - 1 (447)
500-2100	519	LF	CONCRETE BARRIER
500-3002	395	CY	CLASS AA CONCRETE
507-9001	435	LF	PSC BEAMS, AASHTO TYPE I, BR NO - 1
507-9003	1913	LF	PSC BEAMS, AASHTO TYPE III, BR NO - 1
511-1000	56058	LB	BAR REINF STEEL
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 1 (117832)
520-1125	990	LF	PILING IN PLACE, STEEL H, HP 12 X 53
520-1147	1690	LF	PILING IN PLACE, STEEL H, HP 14 X 73
520-4147	1	EA	LOAD TEST, STEEL H, HP 14 X 73 (IF REQD)
540-1102	LUMP	LS	REMOVAL OF EXISTING BR, BR NO - 1

BRIDGE NO. 1



SUPERVISED BY	HISHAM H. DEEB, PE
DESIGN GROUP	WEI
APPROVED	PVL
BRIDGE SHEET	2 OF 16

 Moreland Altobelli Associates, Inc. 221 Beaver Run Road Suite 190 Norcross, Georgia 30071 Tel: (770) 263-5945	
GEORGIA DEPARTMENT OF TRANSPORTATION PRECONSTRUCTION DIVISION-OFFICE OF BRIDGE DESIGN	
GENERAL NOTES CR 21 (THOMSON WEST BYPASS) OVER I-20 MCDUFFIE COUNTY NHS00-0003-00(621)	
NO SCALE AUGUST 2005	
DESIGNED BY EJC CHECKED BY FEJ	DRAWN BY SSB CHECKED BY EJC
QUANTITIES BY EJC CHECKED BY JTW	